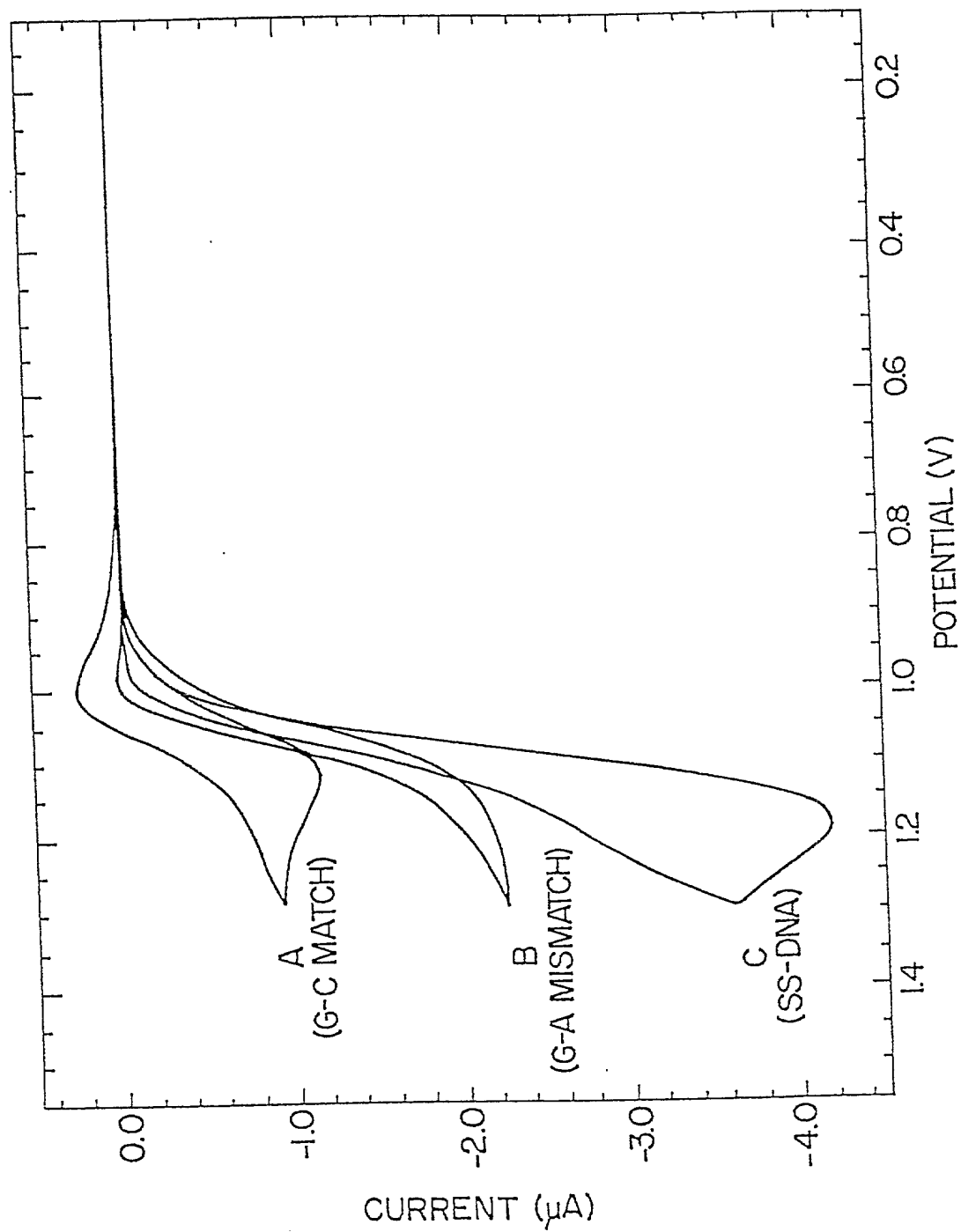
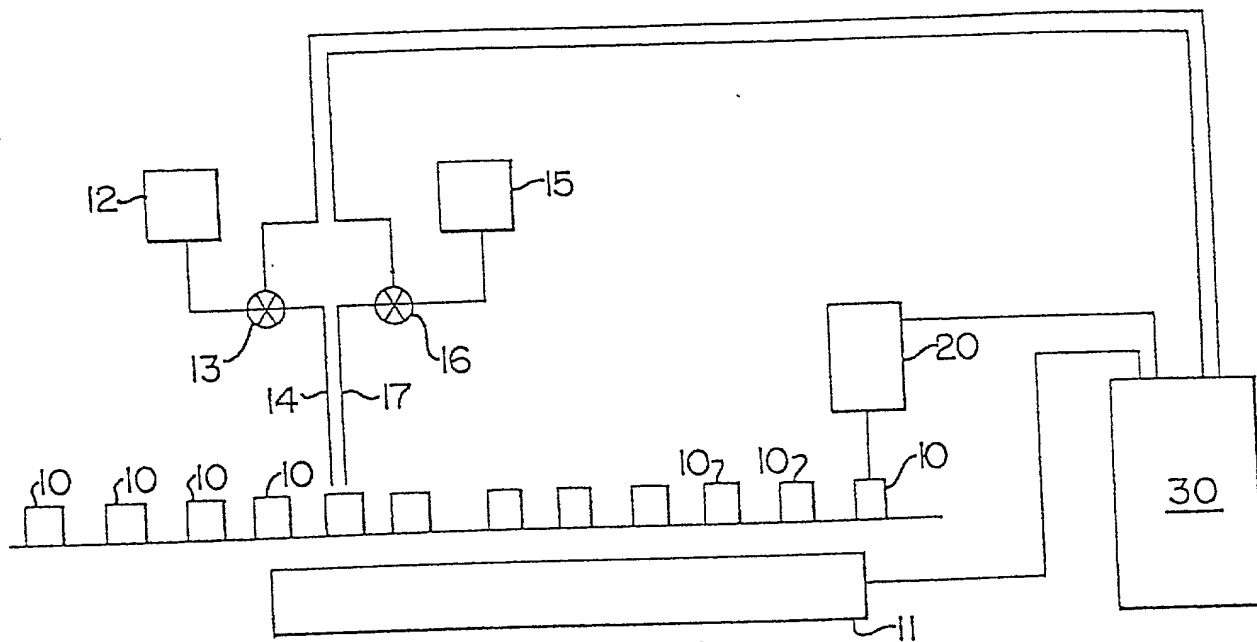
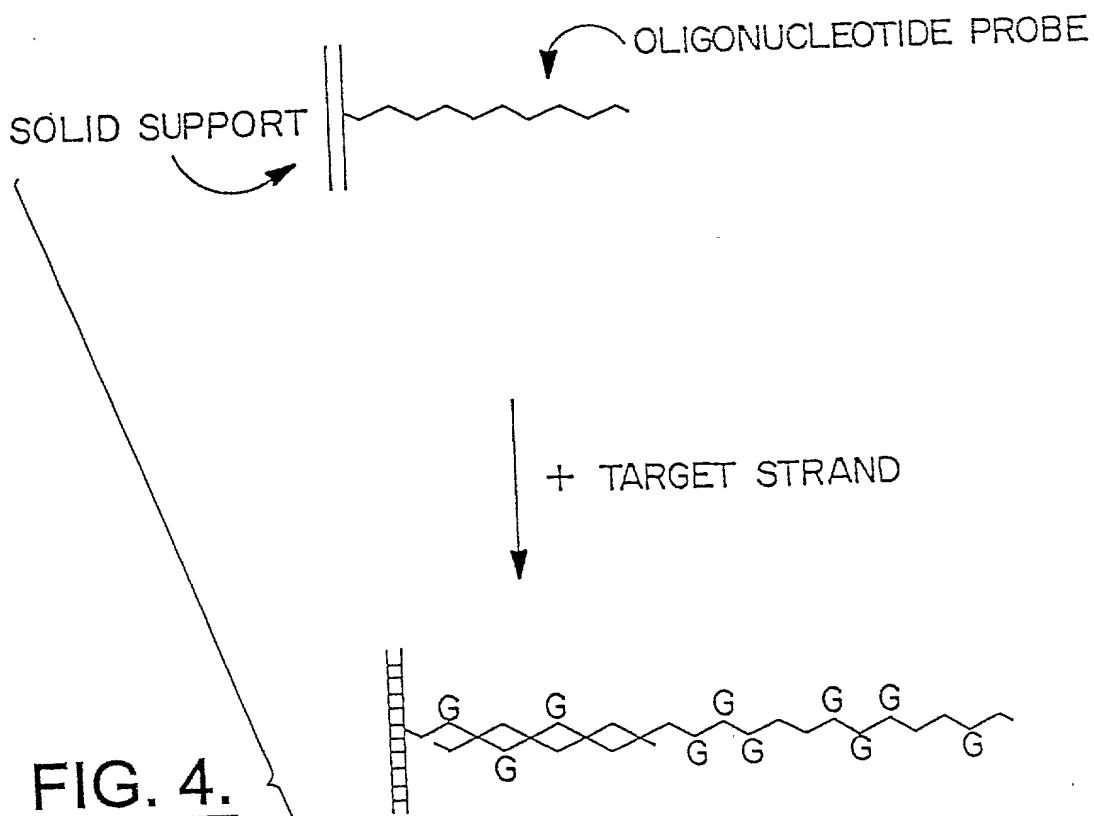


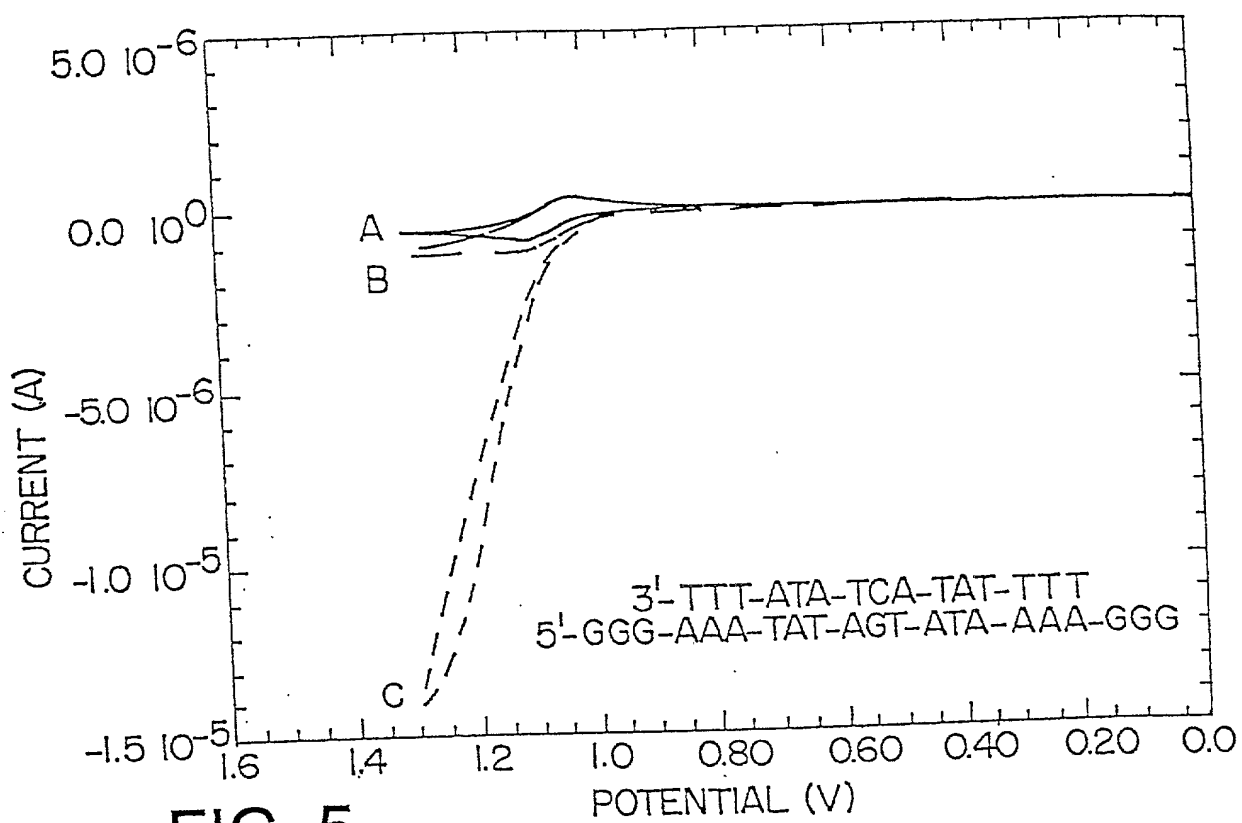
FIG. 1.



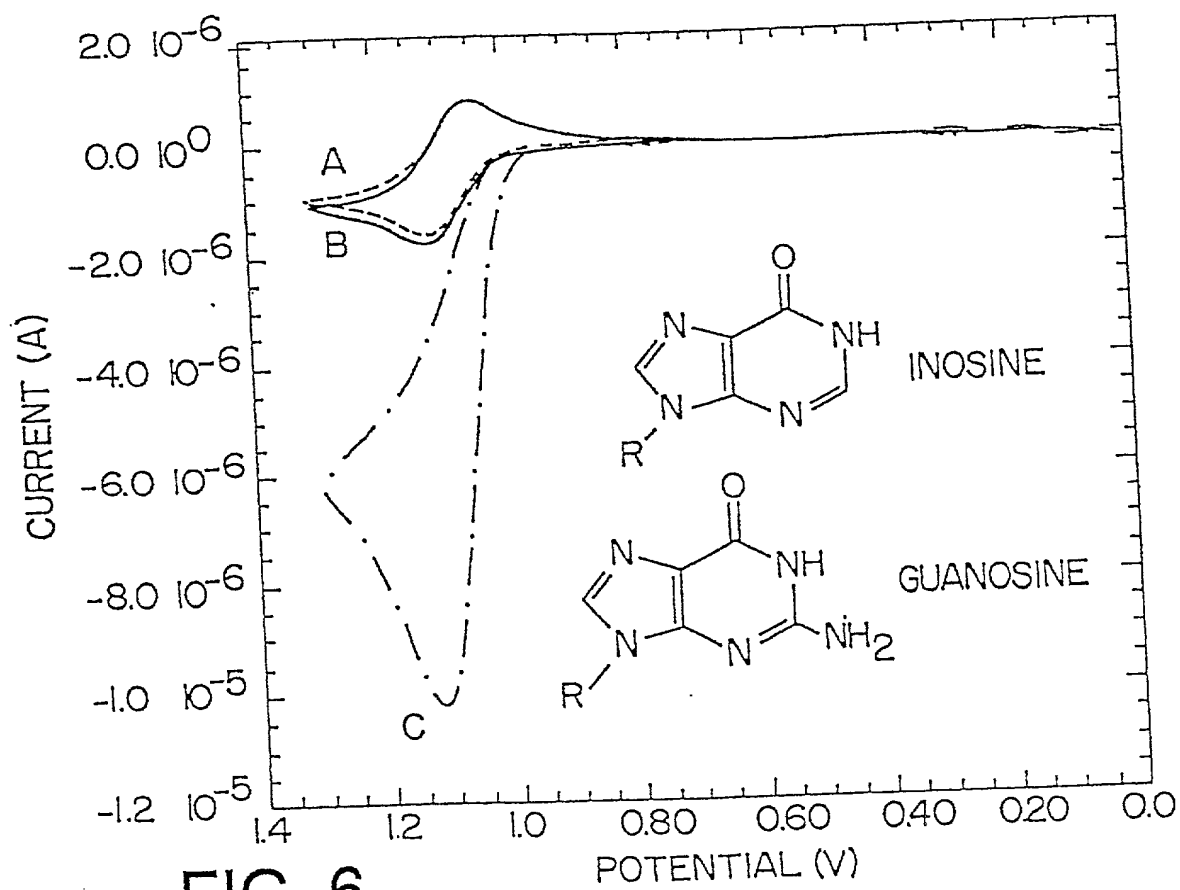


**FIG. 3.**





**FIG. 5.**



**FIG. 6.**

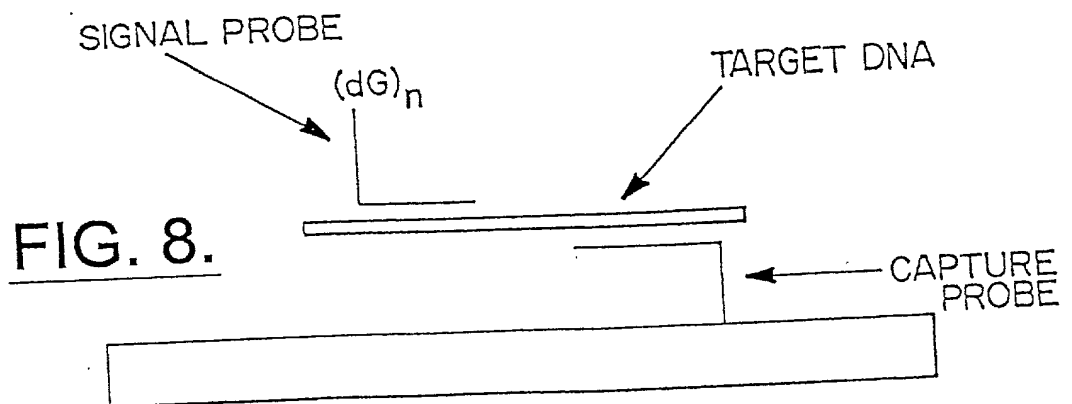
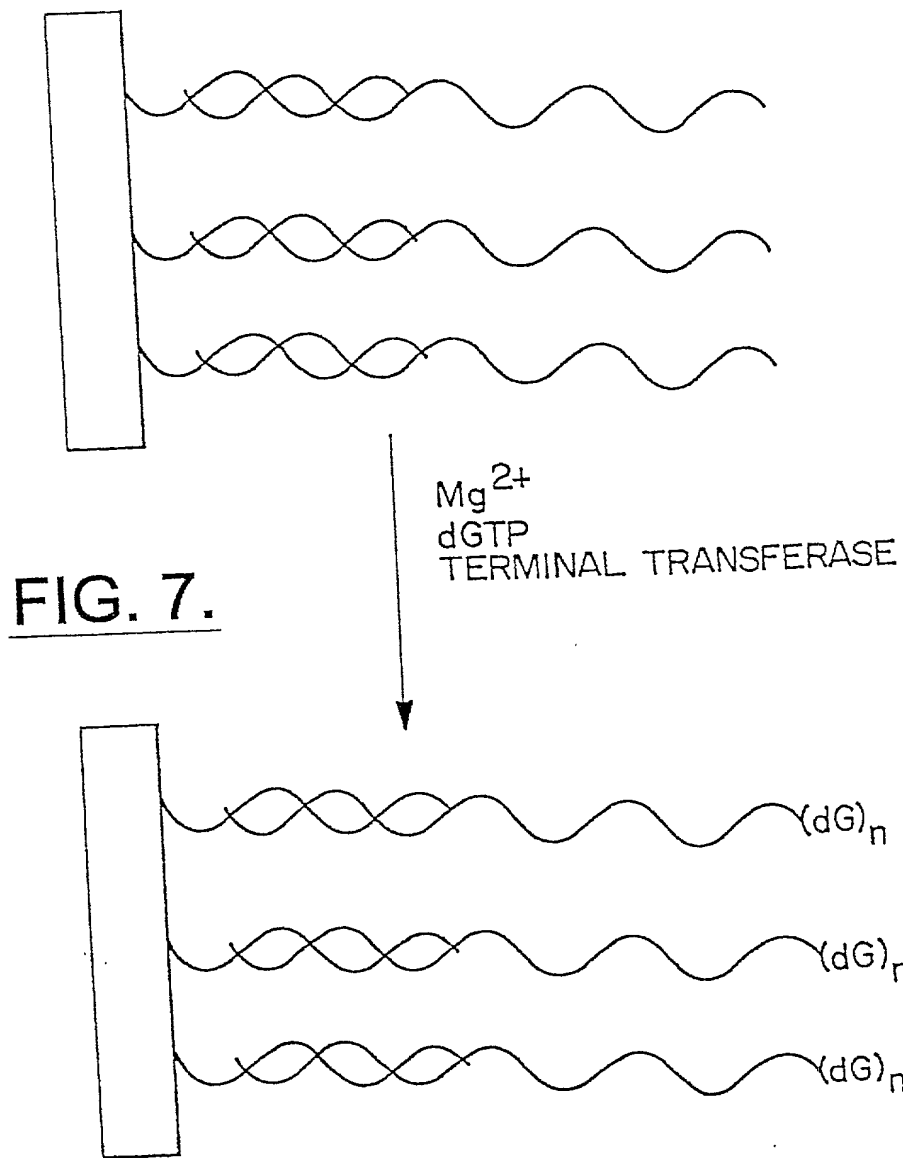


FIG. 9.

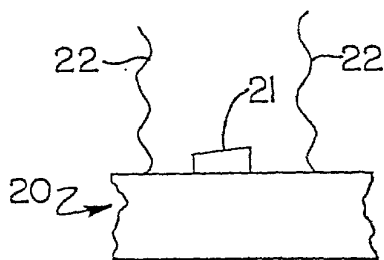
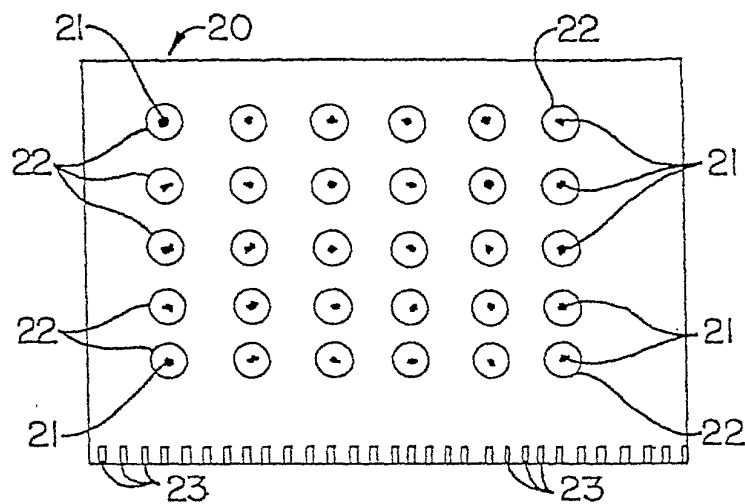
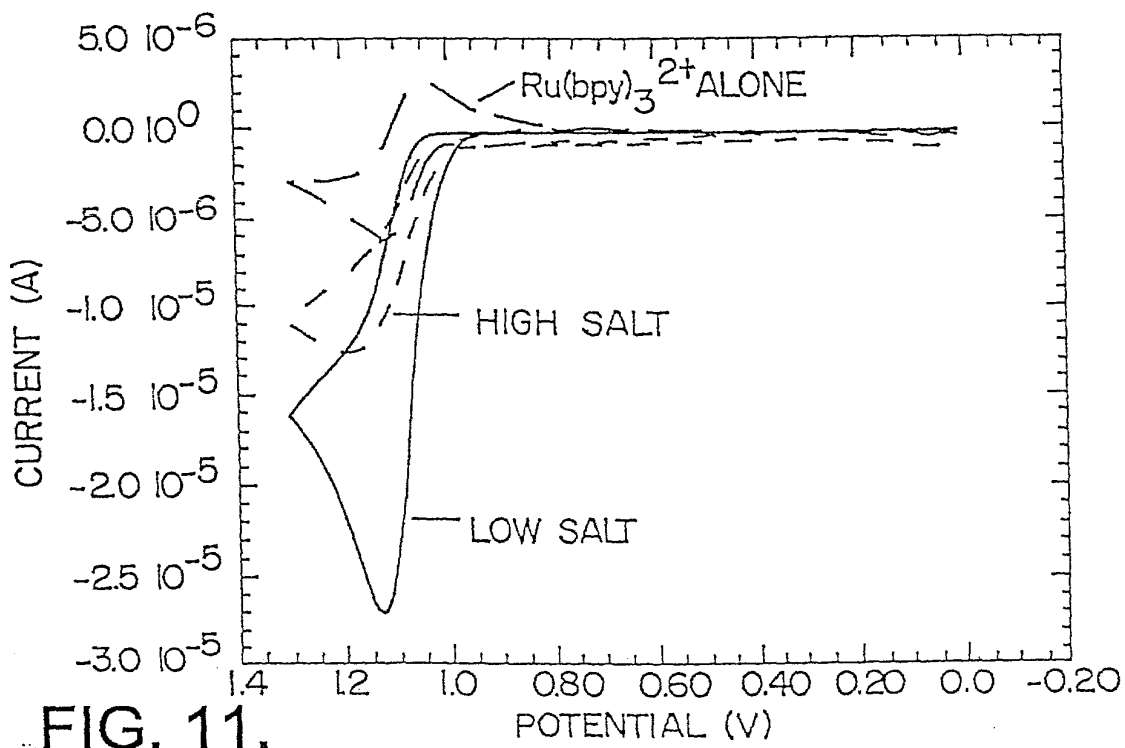


FIG. 10.



A cyclic voltammogram showing the electrochemical behavior of  $\text{Os}(\text{bpy})_3^{2+}$  alone and in the presence of DNA. The x-axis represents Potential (V) from 1.4 to -0.20. The y-axis represents Current (A) from  $-6.0 \times 10^{-6}$  to  $4.0 \times 10^{-6}$ . The solid line represents  $\text{Os}(\text{bpy})_3^{2+}$  alone, showing a reversible redox couple with an oxidation peak at approximately 0.65 V and a reduction peak at approximately 0.68 V. The dashed line represents  $\text{Os}(\text{bpy})_3^{2+}$  + DNA, showing a similar but shifted redox couple with an oxidation peak at approximately 0.75 V and a reduction peak at approximately 0.78 V.

A cyclic voltammogram showing current (A) versus potential (V). The y-axis is labeled 'CURRENT (A)' and ranges from  $-1.0 \times 10^{-5}$  to  $1.0 \times 10^{-5}$  with major ticks at  $1.0 \times 10^{-5}$ ,  $5.0 \times 10^{-6}$ ,  $0.0 \times 10^0$ ,  $-5.0 \times 10^{-6}$ , and  $-1.0 \times 10^{-5}$ . The x-axis is labeled 'POTENTIAL (V)' and ranges from 1.4 to -0.20 with major ticks at 1.4, 1.2, 1.0, 0.80, 0.60, 0.40, 0.20, 0.0, and -0.20. Two curves are shown: a solid line labeled 'Os(bpy)<sub>3</sub><sup>2+</sup> + DNA' and a dashed line labeled 'Os(bpy)<sub>3</sub><sup>2+</sup> ALONE'. Both curves show a reversible redox couple with an anodic peak at approximately 0.7 V and a cathodic peak at approximately 0.6 V. The peak currents for the 'Os(bpy)<sub>3</sub><sup>2+</sup> ALONE' curve are approximately  $6.0 \times 10^{-6}$  A (anodic) and  $-8.0 \times 10^{-6}$  A (cathodic). The peak currents for the 'Os(bpy)<sub>3</sub><sup>2+</sup> + DNA' curve are significantly smaller, approximately  $4.0 \times 10^{-6}$  A (anodic) and  $-5.0 \times 10^{-6}$  A (cathodic).

FIG. 12B.

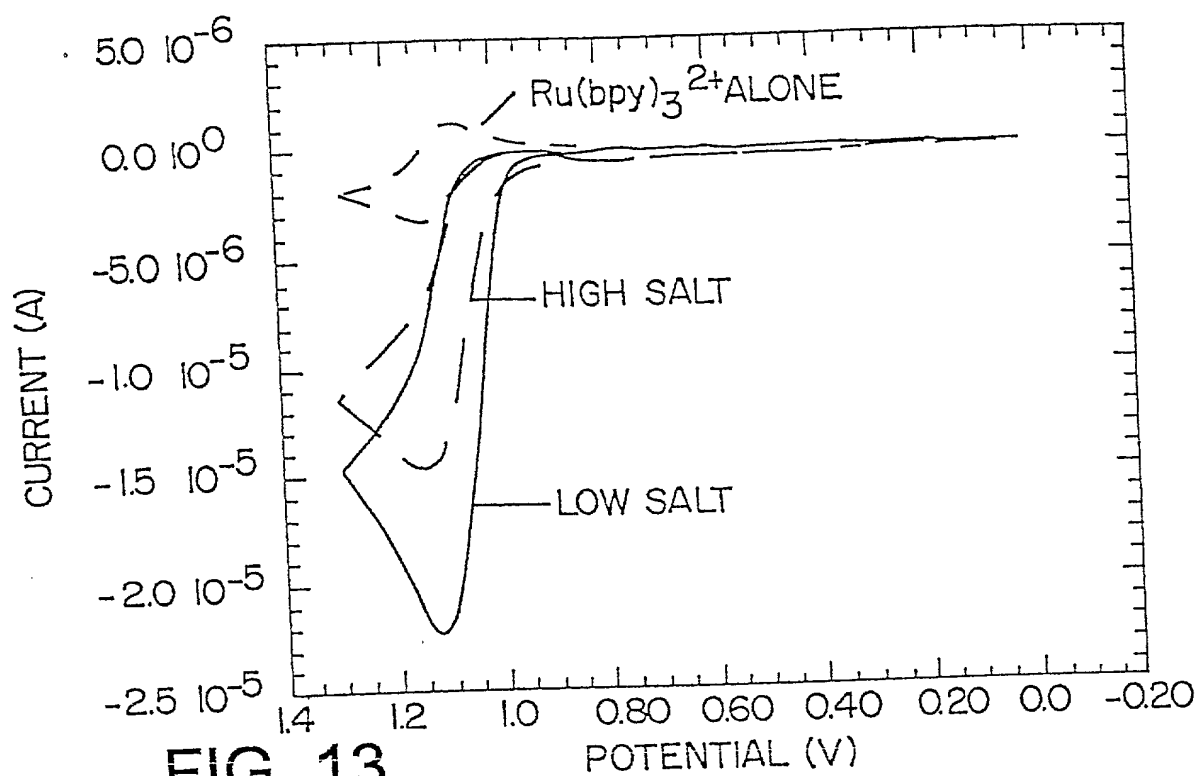


FIG. 13.

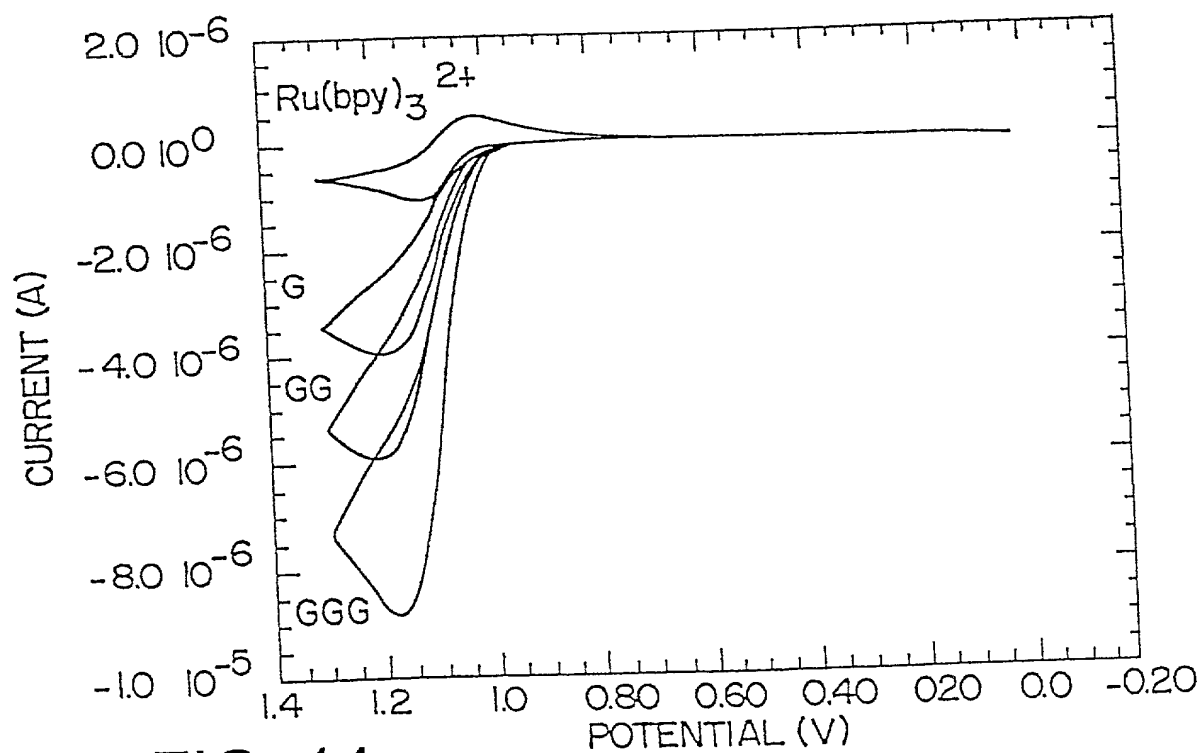
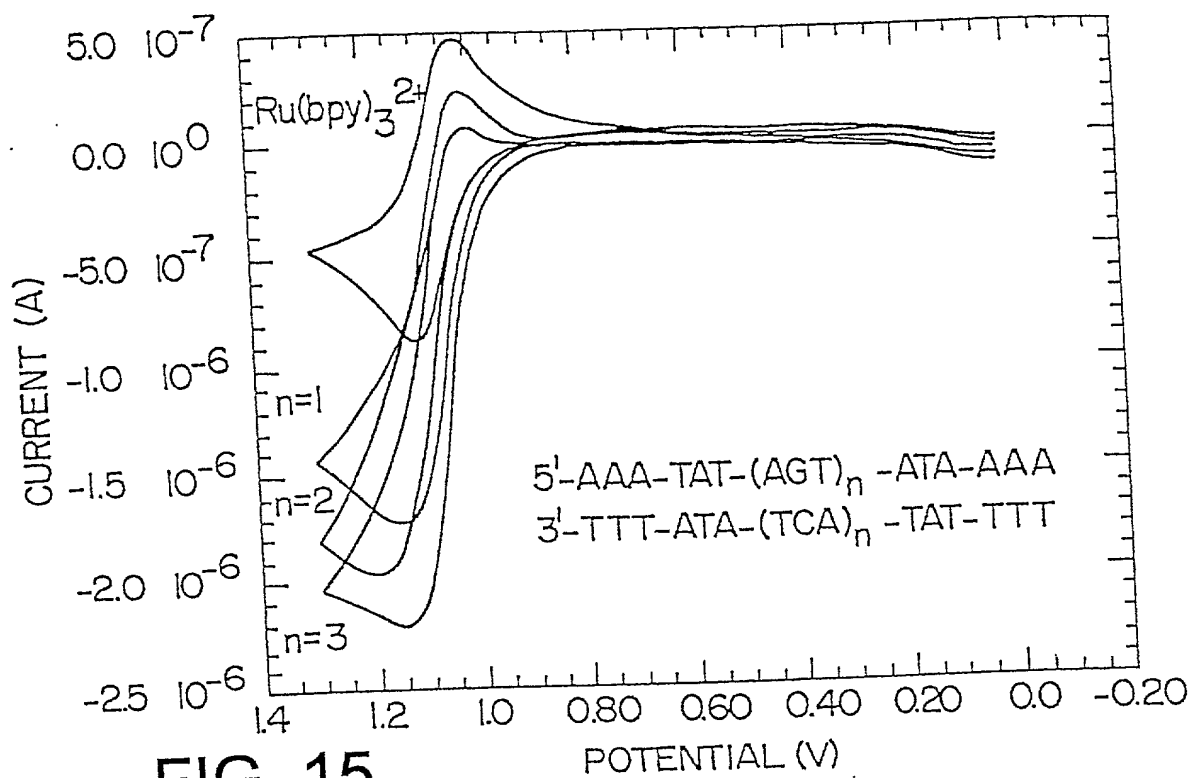
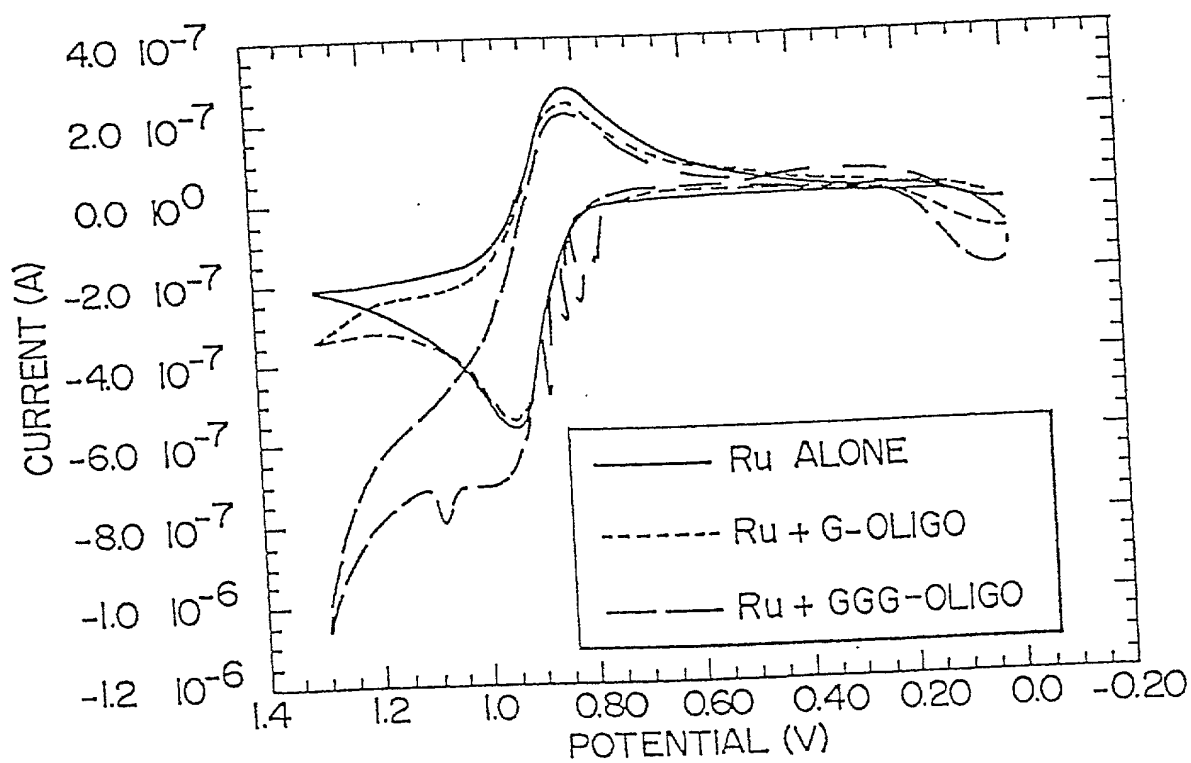


FIG. 14.



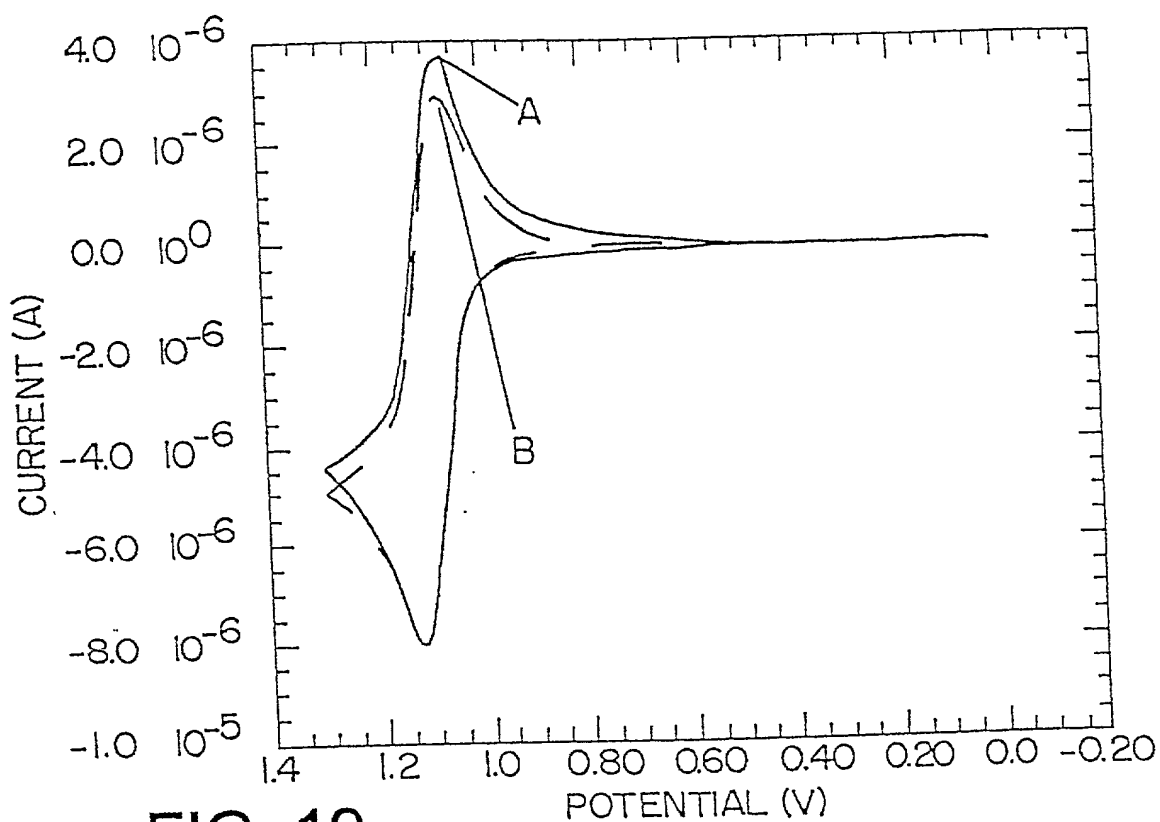


**FIG. 15.**

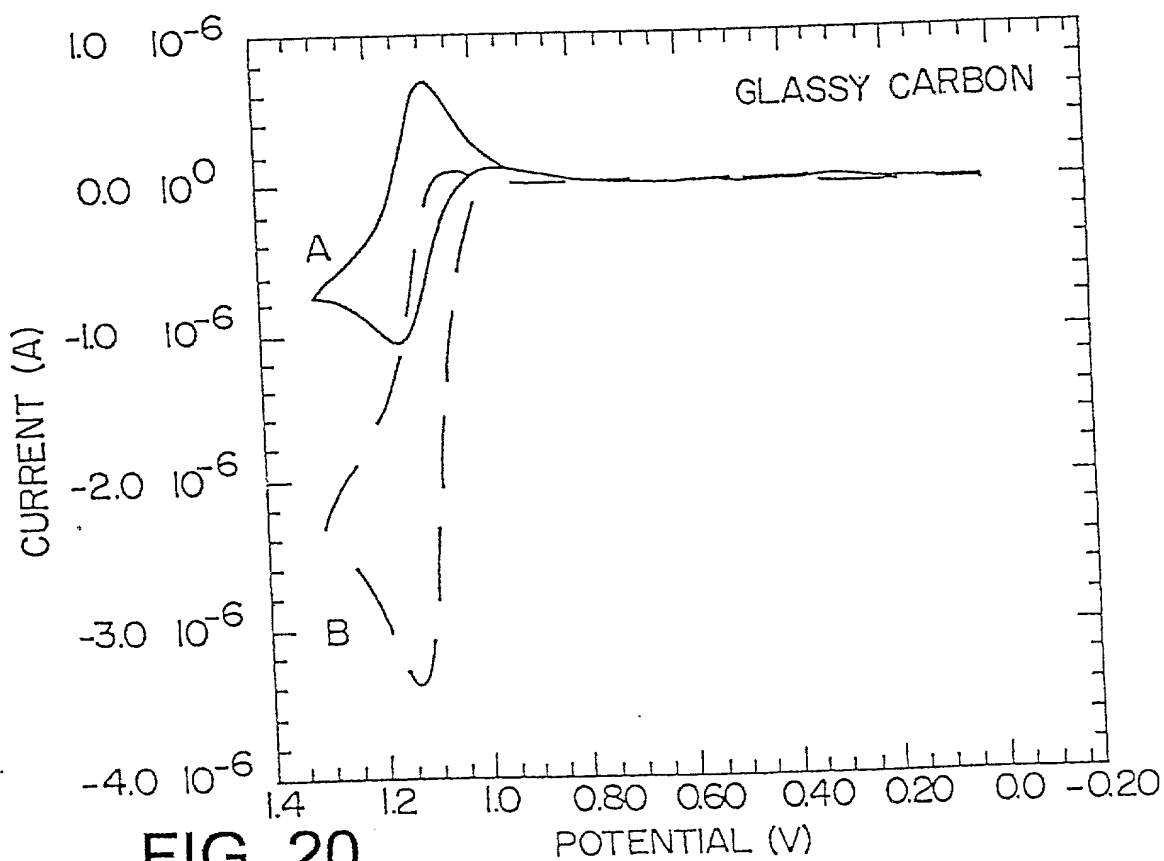


**FIG. 16.**

FIG. 18.



**FIG. 19.**



**FIG. 20.**